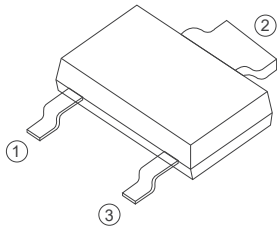
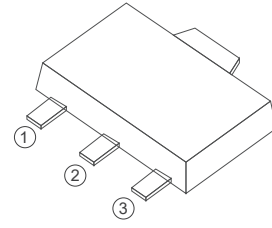


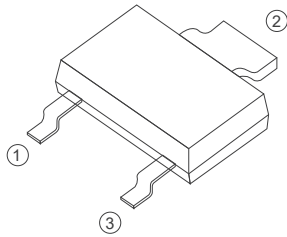
BT134W Series  
2A TRIACs  
4 Quadrants



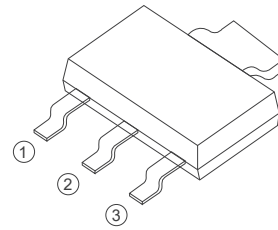
SOT-223-2



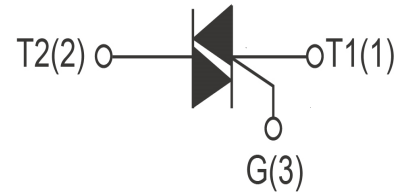
SOT-89



SOT-89-2L



SOT-223-3



## FEATURES

>  $I_T(RMS):2A$  >  $V_{GT}: 1.2V$  >  $V_{DRM} V_{RRM}:600V$

## APPLICATIONS

Washing machine, vacuums, massager, solid state relay, AC Motor speed regulation and so on.

**Absolute Maximum Ratings** (T<sub>J</sub>=25°C unless otherwise specified)

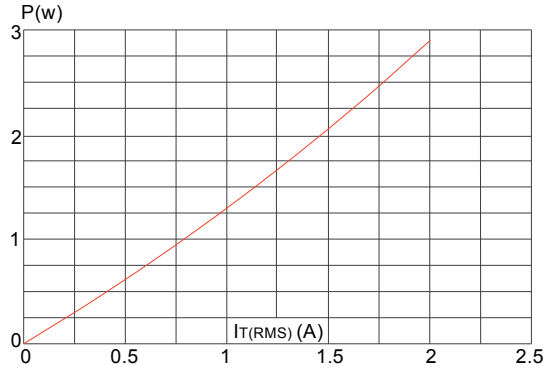
Symbol	Parameter	Conditions	Ratings	Unit
VDRM/VRRM	Repetitive Peak Off-State Voltage		600	V
IT(RMS)	R.M.S On-State Current	T <sub>c</sub> =110°C	2	A
ITSM	Surge On-State Current	T <sub>p</sub> =10ms	20	
I <sup>2</sup> t	I <sup>2</sup> t for fusing	T <sub>p</sub> =10ms	2.6	A <sup>2</sup> s
PG(AV)	Average Gate Power Dissipation	T <sub>J</sub> =125°C	0.5	W
IGM	Peak Gate Current	t <sub>p</sub> =20us T <sub>J</sub> =125°C	2	A
T <sub>J</sub>	Operating Junction Temperature		~40~125	°C
TSTG	Storage Temperature		~40~150	

**Electrical Characteristics** (T<sub>J</sub>=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Value	Unit	
IDRM	Repetitive Peak Off-State Current	T <sub>J</sub> =25°C	≤10	uA	
		T <sub>J</sub> =110°C	≤200	uA	
IRRM	Repetitive Peak Reverse Current	T <sub>J</sub> =25°C	≤10	uA	
		T <sub>J</sub> =110°C	≤200	uA	
VTM	Forward "on" voltage	I <sub>T</sub> =4A t <sub>p</sub> =380us	≤1.5	V	
VGD	Gate non-trigger voltage	V <sub>D</sub> =V <sub>DRM</sub> , T <sub>J</sub> =110°C	≥0.2	V	
IH	Holding current	V <sub>D</sub> =12V ,I <sub>GT</sub> =0.1A	I,II,III	≤5	mA
			IV	≤10	mA
VGT	Gate trigger voltage	V <sub>D</sub> =12V	≤1.2	V	
IGT	Gate trigger current	V <sub>D</sub> =12V	I,II,III	≤3	mA
			IV	≤7	mA
di/dt	Critical-rate of rise of commutation current.	I <sub>T</sub> =4A I <sub>G</sub> =0.2A, dI <sub>G</sub> /dt=0.2A/us	I,II,III	≥50	A /us
			IV	≥10	A /us
dv/dt	Critical-rate of rise of commutation voltage	T <sub>J</sub> =110°C V <sub>D</sub> =2/3V <sub>DRM</sub>	≥30	V/us	

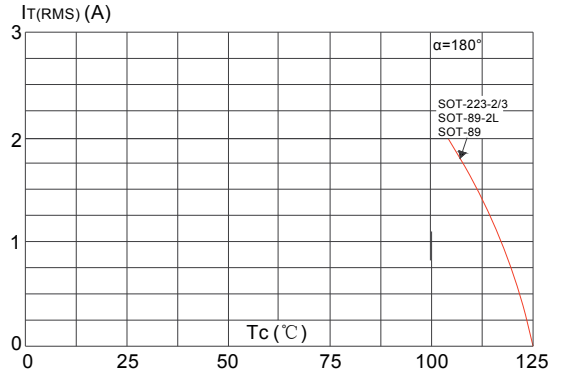
**FIG1**

**FIG.1:** Maximum power dissipation versus RMS on-state current



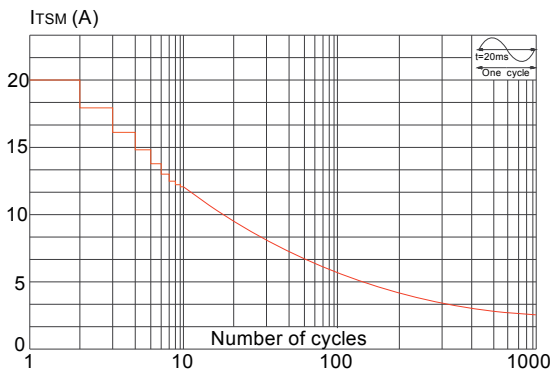
**FIG2**

**FIG.2:** RMS on-state current versus case temperature



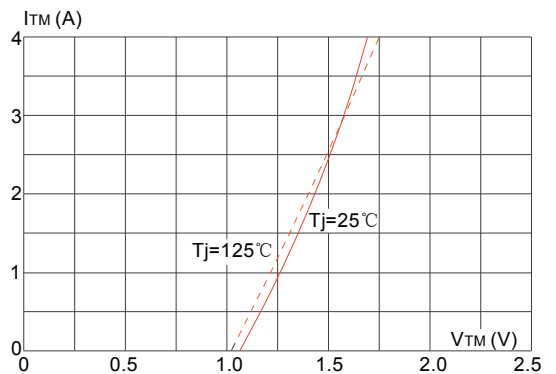
**FIG3**

**Surge peak on-state current versus number of cycles**



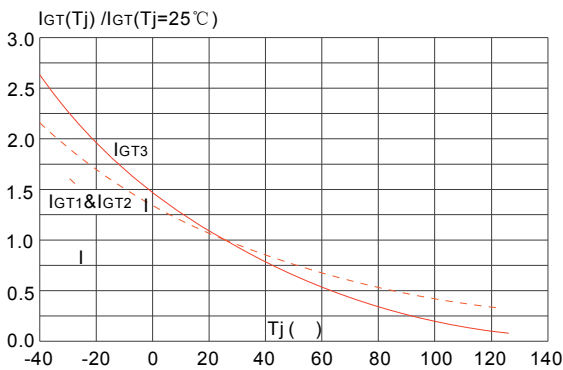
**FIG4**

**On-state characteristics (maximum values)**



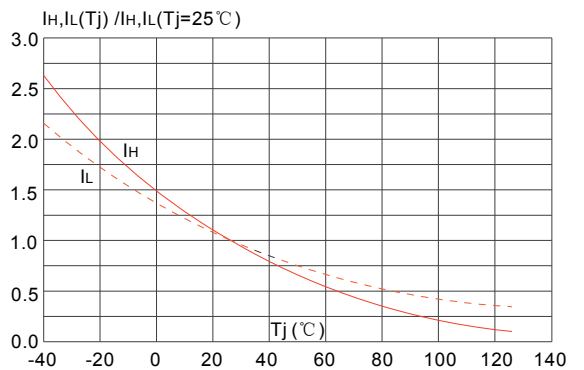
**FIG5**

**Non-repetitive surge peak on-state current for a sinusoidal pulse with width  $t_p < 20ms$ , and corresponding value of  $I^2 t$  ( $di/dt < 100A/\mu s$ )**

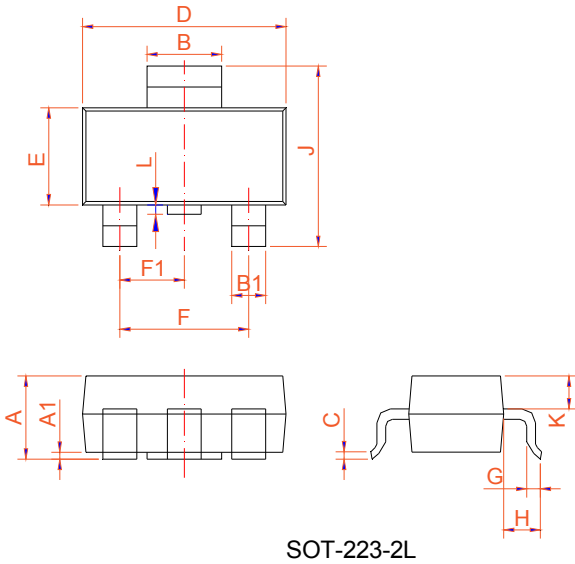


**FIG6**

**FIG.6:** Relative variations of gate trigger current, holding current and latching current versus junction temperature

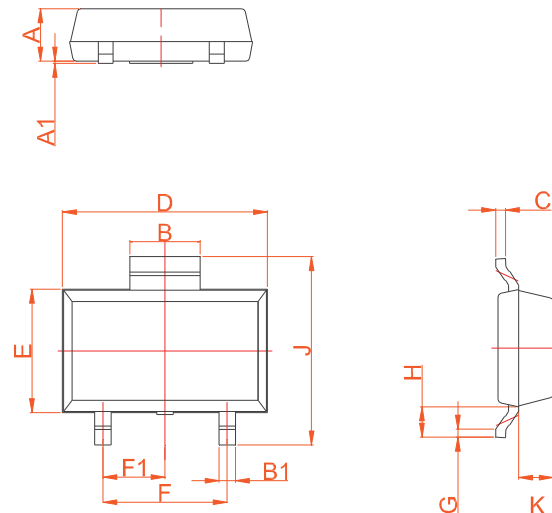


**PACKAGE MECHANICAL DATA**

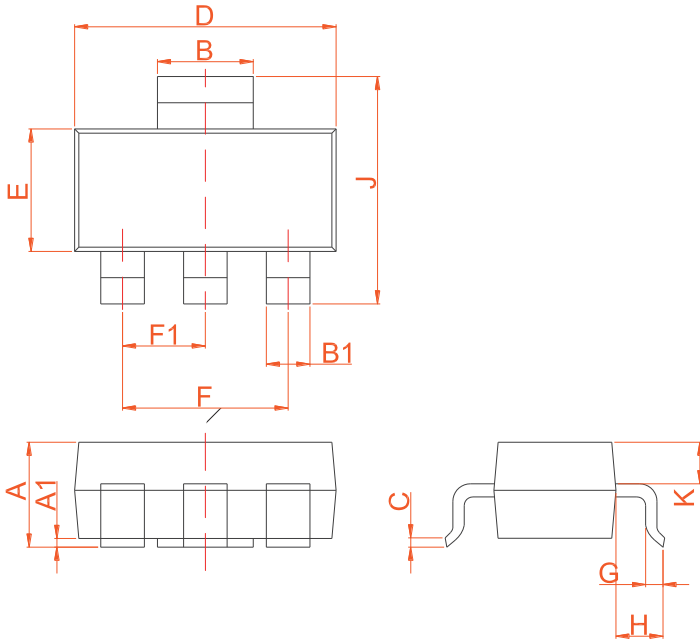


Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.5	1.6	1.8	0.059	0.063	0.071
A1	0.01	0.06	0.10	0.001	0.002	0.004
B	2.9	3.0	3.1	0.114	0.118	0.122
B1	0.6	0.7	0.8	0.024	0.028	0.031
C	0.22	0.26	0.32	0.009	0.010	0.013
D	6.3	6.5	6.7	0.248	0.256	0.264
E	3.3	3.5	3.7	0.130	0.138	0.146
F		4.6			0.181	
F1		2.3			0.091	
G	0.7	0.9	1.1	0.028	0.035	0.043
H	1.5	1.75	2	0.059	0.069	0.079
J	6.7	7.0	7.3	0.264	0.276	0.287
K		0.9			0.035	
L	0	0.1	0.2	0	0.004	0.008

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.3	1.4	1.5	0.051	0.055	0.059
A1	0.01	0.06	0.10	0.001	0.002	0.004
B	1.6	1.7	1.8	0.063	0.067	0.071
B1	0.3	0.4	0.5	0.012	0.016	0.020
C	0.22	0.254	0.32	0.009	0.010	0.013
D	4.75	4.95	5.15	0.187	0.195	0.203
E	2.75	2.95	3.15	0.108	0.116	0.124
F		3.0			0.118	
F1		1.5			0.059	
G	0.2	0.3	0.4	0.008	0.012	0.016
H	0.58	0.78	0.98	0.023	0.031	0.039
J	4.3	4.5	4.7	0.169	0.177	0.185
K		0.88			0.035	

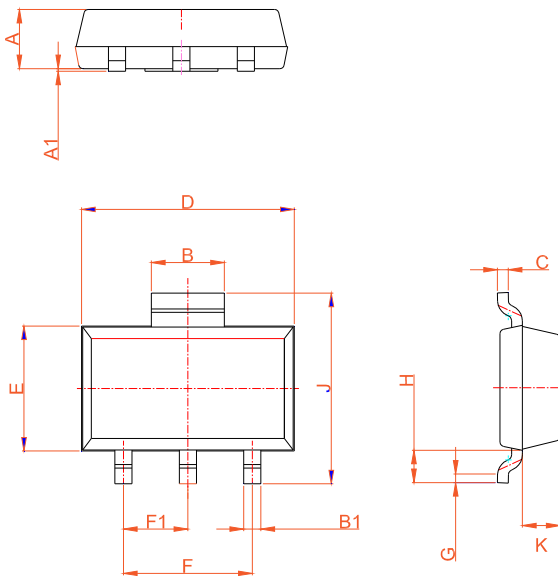


**PACKAGE MECHANICAL DATA**



**SOT-223**

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.5	1.6	1.8	0.059	0.063	0.071
A1	0	0.06	0.10	0	0.002	0.004
B	2.9	3.0	3.1	0.114	0.118	0.122
B1	0.6	0.7	0.8	0.024	0.028	0.031
C	0.22	0.26	0.32	0.009	0.010	0.013
D	6.3	6.5	6.7	0.248	0.256	0.264
E	3.3	3.5	3.7	0.130	0.138	0.146
F		4.6			0.181	
F1		2.3			0.091	
G	0.7	0.9	1.1	0.028	0.035	0.043
H	1.5	1.75	2.0	0.059	0.069	0.079
J	6.7	7.0	7.3	0.264	0.276	0.287
K	0.8	0.9	1.0	0.031	0.035	0.039



**SOT-89**

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.3	1.4	1.5	0.051	0.055	0.059
A1	0.01	0.06	0.10	0.001	0.002	0.004
B	1.6	1.7	1.8	0.063	0.067	0.071
B1	0.3	0.4	0.5	0.012	0.016	0.020
C	0.22	0.254	0.32	0.009	0.010	0.013
D	4.75	4.95	5.15	0.187	0.195	0.203
E	2.75	2.95	3.15	0.108	0.116	0.124
F		3.0			0.118	
F1		1.5			0.059	
G	0.2	0.3	0.4	0.008	0.012	0.016
H	0.58	0.78	0.98	0.023	0.031	0.039
J	4.3	4.5	4.7	0.169	0.177	0.185
K		0.88			0.035	

## Ordering Information

BT 134 W  
Triacs  
IT(RMS) : 2A  
W: SOT-223-3L

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